

# SPARKS

TRI STATE AMATEUR RADIO SOCIETY, Inc.

Published monthly by the Tri State Amateur Radio Society, Inc., as its official organ.

MAY 1967 AMATEUR RADIO W9OG

Clifford McGuyer W9DGA Editor 476 7483

Herb Muth W9NZC Advertising Mgr 423 0373.

Affiliated with the American Radio Relay league and the Indiana Radio Club Council

## OFFICERS

Les LaVanchy, President, W9LXA  
RR#1, Wadesville, Indiana. 985 3530

Harold McClellan, Vice President, W9WNM  
781 Cardinal Drive. 423 5184

Clifford C McGuyer, Secretary, W9DGA  
2900 East Oak Street. 476 7483

Jack Young, Treasurer, K9LAU  
1715 Madison Avenue. 476 8127

TARS Regular Monthly meetings held at the  
Lighthouse 2nd Avenue and Virginia Street  
last Thursday of Each Month. 730 pm.

## DIRECTORS

Hank Galbraith, W9EDJ 67 - 68  
1214 South Alvord Blvd 476 7601

Earl Greene, K9PNJ 67 - 68  
4700 Detroy Road 963 5015

Sam Arthur, WA9JZX 67 - 68  
857 East Parkland Avenue 424 5141

Ralph Greene K9JQY 67  
2021 East Franklin Street 476 6836

Paul Wurtz, K9JSK 67  
3404 Stratfrord Road 423 8786

Charles Robertson, W9MKZ 67  
502 South Lincoln Park Drive 476 8378

Return Requested.  
Tri State Amateur Radio Society, Inc.  
2900 East Oak Street  
Evansville, Indiana. 47714.



FIELD DAY  
JUNE 24-25

Clifford McGuyer  
2900 E. Oak St.  
Evansville, Indiana

L9DGA



"MINUTES, TARS, Regular April Meeting. April 27, 1967"

Officers present: W9LXA Pres; W9DGA Secty; K9LAU Treas; Directors W9RDJ, K9PNJ, WA9JZX, K9JQY and W9MKZ. Meeting called to order by Pres W9LXA at 745 pm. Minutes of past meetings and Treasurers report approved as printed in Sparks. A total of 26 members and visitors were present.

Hamfest Chm WA9HGA gave report on Hamfest indicating things are moving along OK. W9RDJ reported about 1500 Hamfest advertising flyers would be ready shortly for the mail. Emergency Coordinator K9QWV reported on the coming Field Day. He reported no all plans completed. Don also announced communications will be furnished for the Armed Forces Day Parade May 19 and for the Boy Scouts May 20 and 21 at the 4H Center.

Director W9MKZ announced a "TARS Transmitter Hunt" would be conducted Sunday April 30, 1967. All participants are to meet at 2 pm on Reitz Hill for a mileage check. The frequency will be "TARS Emergency Frequency 29.6 mc." All are invited.

K9STX displayed a complete Heathkit 29.6 mc Transceiver and announced the program for May would be a discussion and demonstration of this unit. Program Chm K9STX introduced the speaker of the evening, Mr Hank Galbraith W9RDJ who gave a very interesting lecture on "Teletype." The program was well received by all. Coffee and donuts were served. Meeting adjourned at 940 pm. —W9DGA, Secty TARS—

"MINUTES, TARS May Officers and Board of Directors Meeting"

Officers present: W9LXA Pres; W9DGA Secty; and all Directors including WA9JZX, K9PNJ, W9MKZ, K9JQY, W9RDJ and K9JSK. Also in attendance was Sparks Ad Mgr W9NZC, EC K9QWV and Prog Chm K9STX. Meeting called to order by President W9LXA at 735 pm. Minutes of previous meetings and Treasurers report were read and approved. The bank balance was \$962.09. The Secty read correspondence from the Henderson Club stating they are having their Hamfest Sunday July 30 at the Audubon Raceway. Also read was a letter of resignation as Director of TARS from Earl Green, K9PNJ. Earl will be leaving town within the next few days and will become a W6. The resignation of Earl was accepted with much regret. The Pres announced that the next meeting May 25, an election will be held to fill the unexpired terms (remaining of 67 and all of 68) of Director K9PNJ to bring the Board of Directors back to full strength.

K9STX reported on the Armed Forces Day Parade to be held Friday May 19. All are to meet at Main and Riverside at 630 pm. Ralph also announced that additional help would be needed at the Boy Scout function at the 4 H rural center from noon until 5 pm Sunday May 20, 1967. (Cont'd next page)

Globe "Chief" Transmitter	\$29.95
Globe "Scout" Transmitter	49.95
Globe "Scout" Deluxe, New Price \$159.95 SPECIAL	89.95
Eico 720 Transmitter	59.50
Heath DX-40 Transmitter	37.50
Novice Transmitter (Kit)	19.50
Globe VFO - Self Powered -	49.50
Johnson VFO	39.95
Heath VFO	15.00
Heath Q Multiplier	7.50
National NC-109 Receiver	99.00
Hallicrafters Solid State C B Transceiver	69.50
National NC-270 Reciver	199.50
P & H Linear	149.50
GESCO SWR Reflectometer	29.95
Editors's & Engineers Handbook	12.95
Eico 50 watt Modulator	44.95
G E Tube Characteristic Book	1.50
Semi Conductor Diode Source Book	2.50
ARRL "Gateway to Amateur Radio" package	2.00
Reciver Head phones	2.43
Crystal lapel Microphone	1.20

"CASTRUP'S  
1014 WEST  
FRANKLIN ST



MINUTES, Cont'd. The prog Chm K9STX announced the program for the May meeting would be the "29.6 Mc Transceivers." A discussion and demonstration will be presented. WA9CDP will explain and demonstrate a simple vertical antenna to go with the 29.6 Mc rigs. Director WA9JZX announced the Air Force Mars group would have a six meter transmitter at the Hamfest July 16.

Director W9MKZ reported on the TARS "Transmitter Hunt." Robby stated they were hampered by a little rain, but that a good time was had by all. The winner was K9TQG. Director K9JQY announced plans for the coming Field Day. An outline of operators schedules was presented. K9QWV advised breakfast will be served for those members staying all night. The president announced the regular June meeting will be moved up one week to Thursday June 22, 1967, so as to fall prior to Field Day. The program will be a "Field Day Rally." Films of past Field Day will be shown and discussion and final Field Day plans will be made.

The pres announced the annual "Founders Day Banquet" honoring all TARS past presidents would be held the month of November. A chairman will be appointed at a later date. The president appointed W9DGA as TARS Historian replacing W9OG.

Director W9RDJ advised W9YZO had sent letters to 40 amateur radio businesses requesting items to be used for prize material at the coming Hamfest. Hank also displayed the address gummed labels that will be used for the "Hamfest Flyer" to be mailed prior to Hamfest. W9DGA announced that Howard Campbell W9JFJ will be unable to serve as an auctioneer for the Hamfest. Humpy will be out of town on vacation during this period. Meeting adjourned at 836 pm. —W9DGA Secty TARS —

#### "THE PRESIDENT'S CORNER" By W9LXA

Hi there fellowsw!!! Here we are getting into the months that we have the lightning and thunderstorms. That kind of noise doesn't sound to good around the radio shack. One thing I dislike is the lightning, popping, making a noise, trying to get into the shack. We are trying to get all the equipment grounded here. How about your shack? A new ground rod about 8 to 10 feet in the ground will do the trick, right at the tower. It might be a good idea to see if the guy wires are in good condition for grounding purpose also. A wire of suitable length will pick up the discharge of the lightning. Have you ever tried to hold a long wire antenna when it is lightning close by? You can feel it AND HOW! Especially on 160 meters.

The national electrical code (new handbook 1967)(ARRL) states the Protective size ground conductor for transmitting stations whould be as large as the lead-in but not smaller than #10 copper, bronze or copper clad steel, (Cont'd next page)

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Headquarters for RCA Tubes  
Most complete line of transmitting  
and Receiving Tubes stocked in the  
Tri State for Amateurs, Mobile  
and Citizen Banders.

EVANSVILLE, VINCENNES, INDIANA

Authorized Distributor.

OWENSBORO, KENTUCKY.



PRESIDENT, Cont'd. and prefer not the soft drawn material. (Doce No 810-59). The main thing to do is keep all ground wires outside of the shack if possible. Here at this shack we don't prefer to ground to the water line in the house, radio equipment that is. If the lightning does strike or discharge, it will keep the noise outside. If lightning arresters are used, any other means of ground for your antenna is only as good as the workmanship you put in it. We know it is not 100% proof. In many instances you can save some of your equipment. --W9LXA Pres TARS--

"TARS TREASURERS REPORT" By K9LAU Treasurer.

Cash Balance - beginning of year	\$1,051.32	
Receipts to May 16	<u>308.90</u>	\$1,360.22
Disbursements to May 16		<u>398.13</u>
	CASH BALANCE	\$ 962.09

Tri State Amateur Radio Society, Inc.

May 14, 1967

Dear Friends:

Due to leaving town in the next few days, I am asking to be relieved of my duties as Director of the Tri State Amateur Radio Society.

Each and every year for the past eleven years, I have been associated with the Club in some capacity, from President on down and I must tell you, It has been a pleasure to work with you fellows.

I have seen the Club hit a peak and also a low and now on the way back again, thanks to the work of many of you. I sincerely hope you continue to stay organized and progress forward, because Amateur Radio as a hobby depends on this.

Once again thanks to my many friends and I'll be listening for your signals from six land.

73,

Earl J. Green, K9PNJ.

"FIELD DAY" Schedule Information, By K9JQY.

1. Use GMT time. Operations periods are one hour each except from 12:00 PM to 9:00AM or 0500-1400GMT. RDJ-DAG, NZC-QWV, and PAR-TQG are asked to work as teams in the order given on the schedule. 2. If you are unable to meet your schedule as arranged trade with another operator. Make these arrangements on your own. #. A final operating schedule will be posted in the area (Cont'd next page)

#888 EICO SOLID STATE ENGINE ANALIZER KIT \$44.95

#711 EICO SPACE RANGER SHORT WAVE KIT \$49.95

STEREO RECORD CHANGER WITH LEADS \$19.95

MERCURY #1100A TUBE TESTER \$34.95

MIDLAND AIRCRAFT CONVERTER \$9.95

EICOCRAFT KITS \$2.50 UP

WESCO RADIO PARTS

428 PENN. ST. EVANSVILLE, IND.

PHONE 422 2141



FIELD DAY, Cont'd. before operation begins. Keep the operations schedule given in sparks. Call Ralph, K9JQY, 476 6836 of any change in your schedule. 4. Use A-1 or A-3 as you prefer. If you want someone to operate with you select him from the scheduled operators or any other club member. 5. It is necessary to ask a few fellows to operate more than one period. Any scheduled operator is asked to help a fellow operator on request. 6. Any club member, whose name is not on the schedule is asked to make himself available to pinch hit or to fill in a vacancy if needed. 7. Equipment for Field Day operations is furnished by C D, W9UMS and K9STX. The Club appreciates this service. 2100 GMT is 4 PM CDST. 2100 GMT W9RDJ; 2200 W9DGA; 2300 K9STX; 0000 W9MKZ; 0100 WA9BYZ & WA9TEB; 0200 WA9TEB; 0300 K9LAU; 0400 K9PAR; 0500 W9RDJ; 0600 W9DGA; 0700 W9NZC; 0800 K9QWV; 0900 K9PAR; 1000 K9TQG; 1100 W9RDJ; 1200 W9DGA; 1300 W9NZC; 1400 K9QWV; 1500 W9AZU; 1600 W9OU; 1700 W9NZC; 1800 W9WUH; 1900 K9JQY; 2000 WA9RMO. Remember these times are GMT.

"A SIMPLE COAXIAL ANTENNA FOR 29.6 MHz" By WA9CDF.

Remove the outer black jacket from a ten foot length of RG-8 Coax which has a total length of 20 feet or so. The braid thus uncovered can be turned wrongside out back over the jacket of the remaining length to act as the skirt of a coaxial antenna. This operation is quite tedious, but it can be done. The antenna can then be hung vertically in a tree, etc. Both the single conductor and the braid should be trimmed to about eight feet. Feed with RG-58. —WA9CDF—

Heard on the 29.6 mc net during April and May sessions were: K9PAR, K9PNJ, WA9FSE, K9JQY, K9QLB, WA9HGA, W9WUH, W9MKZ, K9LAU, WA9FEV, W9FHA and W9STX. Total net time was 2 hours and 27 minutes from April 12 to May 3. We would like to see a little better participation. How about checking in at 1900 CDT each Wednesday. —K9QWV, Emergency Coordinator, ARRL & TARS—

GOOD BYE EARL. We are indeed sorry TARS will loose a loyal and faithful member of long standing!! However, we are happy the Earl Green's, K9PNJ will be able to enjoy living in the colorful state of California. We wish Earl & Dot the very best of everything and are already looking forward to their first visit back to E'town. All the fellows will be looking for you from "six" land. Keep us posted. —W9DGA—

"AN INCH OF TIME CANNOT BE BOUGHT WITH AN INCH OF GOLD"

# EVANSVILLE AMATEUR RADIO SUPPLY

is moving to a bigger and better home. A total of 2100 Square Feet of Room.

Look for us at the New Location at 1629 SOUTH KENTUCKY AVE.

Across from the Roca Bar. Effective June 1, 1967. SHOP AND SAVE IN EVERYWAY.

William Ogg, Owner. WA9RMO.



**"TARS MAY MEETING" By Program Chairman, K9STX.**

The regular May meeting of the Tri State Amateur Radio Society will be held at the "Lighthouse" Second Avenue and Virginia Street starting promptly at 730 pm. The business will be held to a minimum so full time can be devoted to an outstanding program. The date is May 25, the last Thursday of May. The program will be "Low power AM Gear for 29.6 Mc." by K9STX, WA9CDF and K9PNJ. Make your plans to attend this meeting and elect a Director to fill the unexpired term of K9PNJ. The June Meeting is being held one week earlier due to Field Day. The date is Thursday, June 22 and the program will be a "Field Day Rally."

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The following is a partial list of items formerly belonging to W9OG that is now for sale. Cantenna 50 ohm load \$5; PMR6 Elmac receiver and Cheyenne Xmtr with AC power supply \$60; Hammarlund HX-500 Xmtr \$200; Hammarlund HQ-180 Rcvr \$250; Heathkitt Signal Tracer #1T12 \$12; Heath VTVM V-7 \$15; Heath Grid Dipper \$15; Heath probe 309-C \$3; Ameco Code practice osc \$5; Heath VOM MM-1 \$22.50; Hallicrafter Pan-Adapter \$25; Stancor 203A Xmtr. Many more items.. Phone 476 7483 W9DGA.--

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A study is under way to determine to what extent, if any, normal propagation conditions were disrupted by the artificial ionosphere cloud fired by rocket from Wallops Island Virginia the evening of March 30. Amateurs having knowledge of disruption of normal conditions that evening, on any frequency, are requested to forward complete details to ARRL, 225 Main Street, Newington, Connecticut. 06111.

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**"REPRINTED FROM MARCH 1941" W9YFL Editor of the Evsl Radio Club"**

W9EHU joined the FTS, Ben needs 2 more states for WAS..W9UMS may change his QRA.. W9GZB doesn't get much time to operate but sure gives twenty fone a work out when time permits. Marty loaned his 35TH to W9BVS....W9QLW rebuilt his osc circuit and is giving the RMB69 a going over, may go to 80 CW....W9DGA still needs Delawar for his WAS...W9RZM has rebuilt his buffer stage and will spend most of his time on 40 meters....W9EBN says any of you young squirts that would like to see what a DX card looks like just stop at W9RZM's shack and take a peek....W4BVK came back to W9DGA and W9QLW at the same time on forty meters the other night. Neither Mac or Carty knew the other was even on. Result a nice 3 way Q S O. W4BVK is Pres of the Valdosta Ga radio club.....W9YFL gave ham exam to Willard Riney and two or three others wanting to take the exam also. Looks like the ham population is growing... CASTRUPS and WESCO were advertisers in this issue. A biography of W9WNM was given.

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The Henderson Club will hold their Hamfest, Sunday July 30 at the Audubon Raceway.

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**"ALL AMATEUR TRANSMISSIONS MUST BE LOGGED"**

FCC, some months back, shut down the popular - - - 2 meter FM repeater. FCC found it had failed to include ID and logging facilities. After it was back on with the proper equeipment for automatic ID'ing and taping incoming signals..(more trouble) "The FCC inspector observed one amateur, on his car rig, who used the repeater to call another amateur. Completing the call, he hung his mike up and continued to drive on. The inspector (Williams by name) asked, "Where is your log?" The Opr sheepishly repleied that he "did not log that frequency." Whereupon two hundred 2-meter operators in the Houston area received 365 day log requests from the FCC. Reports have it that FCC received and verified about eight logs. But some attempted to fabricate and most wrote that they simply did not log QSO's through the repeater. Whereupon all received violations and "to show cause why their license should not be revoked". Moral: All amateur transmissions must be logged. If from a mobile they must be logged, only time on and off the air, in addition to stations worked, but they must be logged.

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CHU TIME SIGNALS, are continuous on 3330, 7335 and 14670 kc. The carrier and signal pips are from an oscillator monitored against a caesium standard. SOLDERING TIP. Wrap rubber band around handles of pliers, makes low tension vice for soldering.



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502 South Lincoln Park Drive 476 8378

Return Requested.

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"FIELD DAY RALLY" meeting June 22.

"FIELD DAY" June 24 and 25.

Clifford McGuyer  
2900 E. Oak St.  
Evansville, Indiana

L9DGA





"MINUTES, TARS, Regular May Meeting. May 25, 1967"

Meeting called to order by Pres W9LXA at 7:45pm. Minutes of past meetings approved as printed in Sparks. Correspondence read and approved. Nominations were opened for Director to fill out the unexpired term of Earl Green, K9PNJ for the rest of 1967 and all of 1968. Ken Small and Al Arendt were nominated. Ken Small WA9HGA was elected to replace K9PNJ.

Visitors included Ed McGinnis, Gary Evans, W9SJY and Jim Rideout W9PLN. Don Weber gave Field Day report showing all plans formulated. Fill in reports for Field Day were given by Ralph Waldo and Ralph Greene. The transmitter will be a Viking I and the Antenna a window.

Ralph Waldo thanks all TARS members for their help at the Armed Forces Day parade and the Scout Jambore held at the Rural 4 H Center. Meeting adjourned at 8:05pm for the program. The program was "Low Power AM Gear for 29.6 Mc" by K9STX, WA9CDP and K9PNJ. The program was well received by all. -Acting Secty, W9RDJ-

"MINUTES, TARS June Officers and Board of Directors meeting, June 13, 1967"

Officers present: W9LXA Pres; W9WNM VP; W9DGA Secty; and Directors W9RDJ, WA9JZX K9JQY, K9JSK, W9MKZ and WA9HGA. Also in attendance was Sparks Advertising Mgr and 9 additional members of the "Hamfest" Committee. Pres W9LXA called meeting to order at 7:30 pm. Minutes of past meetings approved as printed in Sparks. Treasurers report approved as submitted showing a balance of \$946.96.

Secty W9DGA read correspondence from CD thanking TARS for membership participation in the Armed Forces Day Parade and the Scout-O-Rama. At Field Day, Saturday evening at 6 pm, June 24 a "Basket Dinner" will be held for TARS members and their families. Bring your food and TARS will supply the soft drinks. As there is a new lake at the Field Day site, it was discussed and agreed this lake would be "off limits" for all personnel. "No swimming and/or fishing will be allowed."

Pres W9LXA announced the officers and Board of Directors meeting will be moved up a week to Tuesday July 11, so as to fall prior to the Hamfest July 16. Meeting adjourned at 8 pm and all addressed 1,500 "Hamfest Flyers." --W9DGA Secty TARS--

"THE PRESIDENT'S CORNER" By W9LXA

Hi there fellows! It won't be long and Field Day will be here. This is the day we have been looking for. It is the "Big Activity" of the year. (Cont'd)

**EVANSVILLE AMATEUR RADIO SUPPLY**

Has moved to a

**BIGGER AND BETTER QTH**

**1629 S. Kentucky (Near Riverside)**

**GOODIES GALORE!**

Hallcrafters HT-37	225	Mosley CM-1	85
Drake TR-3	369	Heath HX-20	130
Swan 350	325	Heath HR-20	89
Swan 400	295	Clegg 22-er	175
Swan 120	99	DX-60	75
Heath HW-12	99	B & W 5100	79
Heath HW-32	85	National NC-125	75
Heath HW - 32A	95	Laffayette HA-350 Rcvr NEW	99
Hallcrafters SR500	295	Eico 753	169
Hallcrafters HT-46	275	Johnson Thunderbolt Linear	289
Hallcrafters SX-101A	179	Comset GSB - 201	239
Heath HA-14	95		

**COME OUT AND TAKE A LOOK!**

73's

Bill WA9RMO



PRESIDENT, Cont'd. Field Day will be in the same location as it has been in the past couple of years, at the Robinson Conservation Club in Posey County. They have enlarged their facilities so things should be a little more convenient. We are hoping to get started at 9am on Saturday morning. There is lots to do, putting up antennas, getting the rig, moving tables and chairs, having the equipment in the right place so the sun won't shine too hard on the operating table, and of course everyone putting their two bits on how things should be. It is going to be a BIG DAY.

Don't forget the pitch in supper on Saturday evening. Those baskets and boxes have lots of good food in them, when they arrive at the tables. The wives we have can fix some good dishes, you know. In the evening the fellows stick around and have a "gab fest" and drink coffee. A few of the fellows camp out. Some bring their tents and sleep where they can. And other fellows just find a place to sleep. Have you ever seen Herb NZC sleeping in his car with his feet out the windows and Mac DGA sleeping on the roof? You fellows who miss the Field Day, really miss a "BIG DAY."

#### "TARS TREASURERS REPORT" By K9IAU Treasurer.

Cash Balance - beginning of year	\$1,051.32	
Receipts to June 13	<u>320.90</u>	\$1,372.22
Disbursements to June 13		<u>425.26</u>
	CASH BALANCE	\$ 946.96

#### "TARS JUNE MEETING"

The regular June meeting of TARS will be held at the "Lighthouse" Second Avenue and Virginia Street starting promptly at 730 PM. The business will be held to a minimum so full time can be devoted to a program "FIELD DAY RALLY" to be put on by the "Field Day Committee." This meeting is being held one week early so as to fall before Field Day. Don't forget "HAMFEST" Sunday July 16 at the Rural Center.

NOTICE. All remaining radio equipment of Ray Miller W9OG will be auctioned at the Hamfest July 16, 1967 at the 4H Rural Center. There is still some good items left.

Two amateur stations will be operated at the World Scout Jamboree in Farragut State Park, Idaho, August 1 to 9 1967. The call K7WSJ will be used for general contacts and K7BS for traffic. Full details appear on page 10 of the July issue of QST.

#### "FIELD DAY SPECIALS"

Heath Two'er Transceiver	\$32.50
Heath Ten'er Transceiver	32.50
Viking I Transmitter	99.50
B & W Transmitter	199.50
Johnson Matchbox	65.00
14AVS Vertical Antenna New	25.00
Globe Scout Transmitter	49.50
Heath Q - Multiplier	5.95
Permalume "Silicone 10 Year" Paint New All-Weather coating. Qt.	4.15
Transistor "Techni-kit" - for Beginners, makes 18 projects	11.95
Eico-Craft C W Oscillator Kit	2.50
Hallcrafters SX-99	75.00
National NC-109 Receiver	99.00
Earphones	.33
M-24-A Microphone - New stock	3.87
Shure Microphones	4.80
Johnson Messenger "Walkie-Talkie" Best buy of all. Spec. for pair	55.00
2 station intercomm - complete	10.95
New C B Transceivers	89.95
8" Hi Fi Speakers	8.95
CESCO S W R "Reflectometer"	29.95

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FCC has added another nine questions to its study material for the Novice license. The questions with answers prepared by the ARRL headquarters staff will appear in future copies of the License Manual and in the July issue of QST. In addition, preprints are available and will be sent by ARRL upon receipt of a SASE.

The Indiana Radio Club Council will hold its Hamfest and Family Picnic, Sunday July 9, 1967 at the Brown County State Park, Sunday July 9, 1967. Door Prizes, Contest Awards, fun for the entire family. Ample parking and picnic areas.

ARRL has simplified their rules for the "RAG CHEWER'S CLUB" Award. Henceforth a certificate will be issued on the applicant's affirmation detailing the required half-hour or longer QSO, without requiring confirmation from the station worked. TARS June Meeting, June 22. Field Day, June 24 and 25. Hamfest, July 16, 1967.

#888 EICO SOLID STATE ENGINE ANALIZER KIT	\$44.95
#711 EICO SPACE RANGER SHORT WAVE KIT.	\$49.95
STEREO RECORD CHANGER WITH LEADS	19.95
MERCURY #1100A TUBE TESTER	34.95
MIDLAND AIRCRAFT CONVERTER	9.95

EICOCRAFT KITS \$2.50 & UP

GOOD LUCK TARS ON FIELD DAY

WESCO RADIO PARTS

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PHONE 422-2141